

Published with a grant-in-aid from the National Council of Researches of Italy

Bulletin volcanologique

JOURNAL OF

The International Association of Volcanology
and Chemistry of the Earth's Interior
of the International Union of Geodesy and Geophysics

Tome XXXVI - 1972

B. V.

UNIVERSITY OF HAWAII LIBRARY

LIBRARY USE ONLY

Printed by

STABILIMENTO TIPOGRAFICO FRANCESCO GIANNINI & FIGLI

Via Cisterna dell'Olio - Napoli, Italy

1973

INDEX TO VOL. XXXVI
TABLE DE MATIÈRES POUR LE T. XXXVI

Fasc. 1

P. ZETTWOOG and H. TAZIEFF, <i>Instrumentation for Measuring and Recording Mass and Energy Transfer from Volcanoes to Atmosphere</i>	pag. 1
G. R. T. CLACY, <i>Analysis of Seismic Events Recorded with a Slow Motion Tape Recorder near Chateau Tongariro, New Zealand during February 18, 1966 to December 31, 1966</i>	» 20
W. I. ROSE, JR., <i>Notes on the 1902 Eruption of Santa María Volcano, Guatemala</i>	» 29
C. BOYER, <i>Study of a Few Palaeozoic Ignimbrites in the Armorican Massif and in the Central Massif, France</i>	» 46
F. INNOCENTI and R. MAZZUOLI, <i>Petrology of the Izmir-Karaburun Volcanic Area (West Turkey)</i>	» 83
D. A. SWANSON, W. A. DUFFIELD, D. B. JACKSON, and D. W. PETERSON, <i>The Complex Filling of Alae Crater, Kilauea Volcano, Hawaii</i>	» 105
G. A. MACDONALD, H. A. POWERS, and T. KATSURA, <i>Interlaboratory Comparison of Some Chemical Analyses of Hawaiian Volcanic Rocks</i>	» 127
J. TOURNON, <i>Présence de Basaltes Alcalins Récents au Costa Rica (Amérique Centrale)</i>	» 140
H. SIGURDSSON, <i>Partly-welded Pyroclast Flow Deposits in Dominica, Lesser Antilles</i>	» 148
K. AOKI and H. KUNO †, <i>Gabbro - Quartz Diorite Inclusions from Izu-Hakone Region, Japan</i>	» 164
T. UI, <i>Recent Volcanism in Masaya-Granada Area, Nicaragua</i>	» 174
R. M. MOXHAM, G. R. BOYNTON and C. E. COTE, <i>Satellite Telemetry of Fumarole Temperatures, Mount Rainier, Washington</i>	» 191
A. POUCLÉT et M. VILLENEUVE, <i>L'éruption du Rugarama (mars - mai 1971) au volcan Nyamuragira (Rép. Zaïre)</i>	» 200
E. N. ERLICH, I. V. MELEKESTSEV, A. A. TARAKANOVSKY and M. I. ZUBIN, <i>Quaternary Calderas of Kamchatka</i>	» 222
M. F. J. FLOWER, <i>Petrology of Volcanic Rocks from Anjouan, Comores Archipelago</i>	» 238
J. R. VAIL, <i>Jebel Marra, a Dormant Volcano in Darfur Province, Western Sudan</i>	» 251

Fasc. 2

S. THORARINSSON and G. E. SIGVALDASON, <i>The Hekla Eruption of 1970</i>	pag. 269
P. BORDET, <i>Le volcanisme acide récent du Dacht-e-Nawar (Afghanistan central)</i> » 289	
H. P. ZECK, <i>A Migmatitic Lava from SE Spain</i>	» 301
A. W. BERRY, JR. and M. E. BICKFORD, <i>Precambrian Volcanics Associated with the Taum Sauk Caldera, St. Francois Mountains, Missouri, U.S.A.</i>	» 303
F. MACHADO, <i>Acid Volcanoes of San Miguel, Azores</i>	» 319
P. E. BAKER and I. MCREATH, <i>The Acid Rocks of the Ocean Basins</i>	» 328
J. KELLER and L. VILLARI, <i>Rhyolitic Ignimbrites in the Region of Afyon (Central Anatolia)</i>	» 342
J. DOREL, S. ESCHENBRENNER et M. FEUILLARD, <i>Les volcans actifs de la Guadeloupe et de la Martinique, Petites Antilles</i>	» 359
E. A. K. MIDDLEMOST, <i>A Simple Classification of Volcanic Rocks</i>	» 382

Fasc. 3

R. C. RHODES and E. I. SMITH, <i>Geology and Tectonic Setting of the Mule Creek Caldera, New Mexico, U.S.A.</i>	pag. 401
K. BRAM, <i>Remarques sur l'activité séismique avant et pendant l'éruption du Rugarama au volcan Nyamagira dans le Graben Ouest-africain (Mars-Avril 1971)</i>	» 412
C. COULON et A. DEMANT, <i>Un épisode du volcanisme cénozoïque calco-alcalin de la Sardaigne nord-occidentale: le cycle « andésitique terminal » de la région Mara-Romana</i>	» 418
G. E. BOGOYAVLENSKAYA, <i>Melted Xenoliths of Intrusive Rocks in the Pyroclastic Deposits of the Uzon and Semyatchinskaya Ring Structures (Kamchatka)</i>	» 443
C. BLOT, <i>Volcanisme et séismes du manteau supérieur dans l'Archipel des Nouvelles-Hébrides</i>	» 446
G. MARAKIS and C. SIDERIS, <i>Petrology of the Edessa Area Volcanic Rocks, Western Macedonia, Greece</i>	» 462
S. BORSI, G. FERRARA, F. INNOCENTI and R. MAZZUOLI, <i>Geochronology and Petrology of Recent Volcanics in the Eastern Aegean Sea (West Anatolia and Lesvos Island)</i>	» 473
N. KOCHHAR, <i>The Problem of Volcanic-plutonic Associations in the Light of Studies on the Tusham Ring Complex, North Peninsular India</i>	» 497

COMMENTS AND DISCUSSIONS

D. A. SWANSON, <i>Comments on «Inclined pipe vesicles as indicators of flow direction in basalt: a critical appraisal» by G. L. Peterson and J. W. Hawkins, Jr.</i>	pag. 503
G. L. PETERSON and J. W. HAWKINS, JR., <i>Reply to Comments of D. A. Swanson</i>	» 505
P. A. MOHR, <i>Tectonic Maps of the Ethiopian Rift System, and an Apology</i>	» 507
V. F. HOLLISTER, <i>Discussion to «Recent Volcanic and Fumarolic Activity at Santiaguito Volcano, Guatemala», by R. E. Stoiber and W. I. Rose Jr.</i>	» 512

Fasc. 4

G. M. DI PAOLA, <i>The Ethiopian Rift Valley (Between 7°00' and 8°40' lat. North)</i>	pag. 517
V. M. ZOBIN, <i>Focal Mechanism of Volcanic Earthquakes</i>	» 561